MICRO
DIVERSIONS
INC

Defining the New Generation of Text Editing

THE

WORDSMITH™

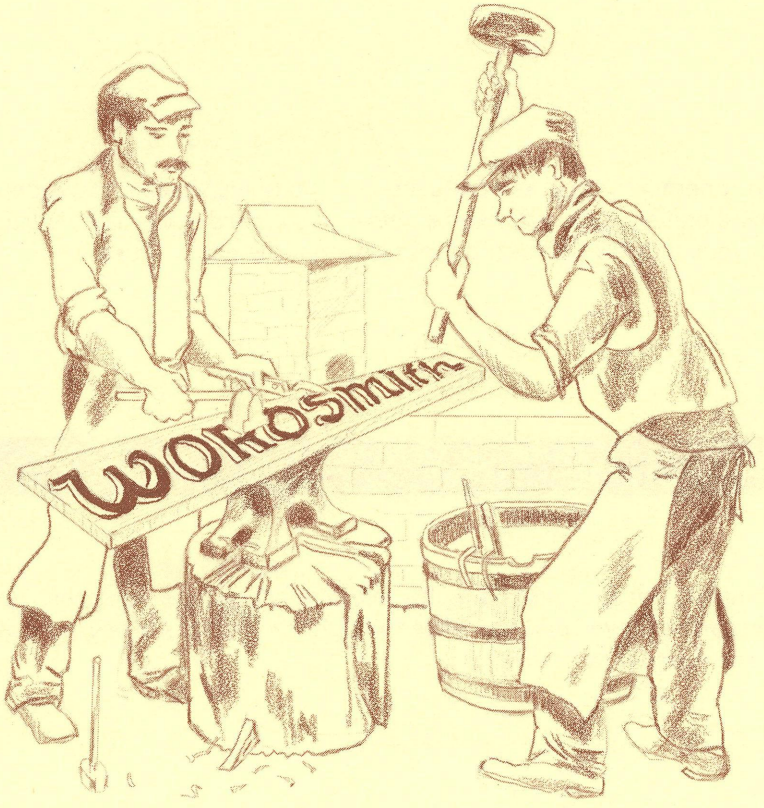
WORDSMITH™
WORDSMITH™
WORDSMITH™

WORDSMITH™

TEXT EDITOR

Introduction

WORDSMITH™ defines a new type of text editing and document processing environment for 8080 or Z80-based microcomputers. In contrast to the line-oriented editors of the past, Wordsmith is page-oriented. "Page-oriented" means that documents are stored on disk as a collection of pages which can be manipulated individually, cut and pasted, and rearranged in much the same way as a hardcopy document. The screen always displays one entire page, and in exactly the format in which it would appear as a page or part of a page on the hardcopy device. This screen-page correspondence makes possible a variety of block and region layout primitives in addition to the conventional editing operators. And most importantly, it permits us to think about a document as a stack of pages; text on one page will remain there, pages can be flipped through quickly, pages can be rearranged, and, as we will show you, some impressive cut and paste operations can be performed with simple and elegant commands.

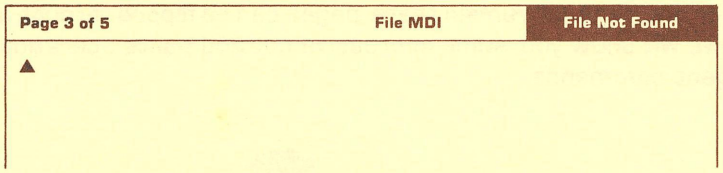


When operating with Micro Diversions' Screensplitter™ video board, the display is thought of as a 40 line by 86 character column grid. The top line is always reserved for a continuous display of editor status information: the name of the current document, which page is on the screen, the size in pages of the document, the X-Y coordinates of the cursor, and error or warning messages.

The remaining 39 lines of the screen are the page text. The entire 39 by 86 grid is pictured as the "base window", and it is into this region that text is entered by default. However, it is possible to open up to 21 additional windows per page, each of which defines a region of the screen to which editing activities may be directed. Windows provide a powerful and simple means of moving blocks of text in cut and paste fashion, of restricting the scope of string searches, and of restricting cursor movement. Wordsmith supports block manipulation with a wide variety of window commands.

Editor Commands

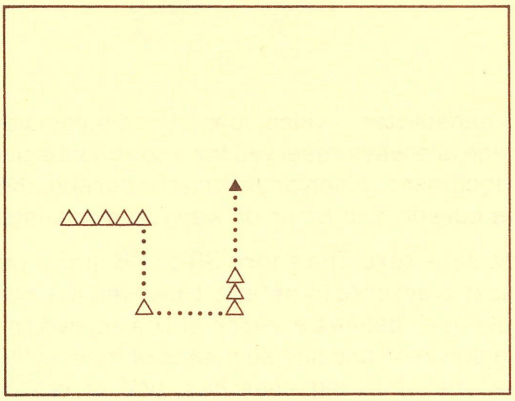
Editor commands are either single keystrokes or "command sequences". A command sequence is the "break" key, followed by a command mnemonic and any parameters the command may require, followed by a closing break. Upon sensing the first break, Wordsmith switches you out of the text region and up to the top line where you can see your command as it is invoked by the second break. Any error conditions are signaled by flashing the command window and issuing a short message, and upon completion of the command, control is returned to the cursor position in the text region.



Since the command mnemonic table is accessible to the user, there is considerable latitude in changing the mnemonics and single keystrokes to fit any keyboard style. The Wordsmith keyboard provides a Selectric layout and 19 dedicated function keys for ease of use.

Cursor Control

Cursor control commands permit unit and multi-unit nondestructive cursor movement. By single keystrokes, the cursor can be moved one character or eight characters in any direction, constrained only by the extent of the current window.



Efficient one-space and eight-space multi-directional cursor control

Product Description
November 1979

MICRO DIVERSIONS INC

Suggested Retail Prices

Terminals

MicroAngelo™ High Resolution Graphics Terminal

A 512H by 484V raster scan graphics terminal with dual 4 Mhz Z80 microprocessors for high speed operation. The 72 key detached keyboard with dedicated graphics keys, and a 15 inch screen with eye saving green phosphor are standard. Two RS-232C serial ports with software selectable speed, parity, data length; 60 hertz interrupting real time clock; dual port memory for a completely undisturbed display. Resident software emulates a terminal and also accepts high level commands from the keyboard or serial port for point, line, region, and variably-sized and oriented character generation. Future software extensibility.

$2,695.00
manual only **$ 50.00**
hardcopy driver **$ 80.00**

Gifted Terminal™

A 4 Mhz Z80 microprocessor-based terminal featuring a high resolution 40 line display, detached 72 key keyboard with numeric pad and dedicated Gifted Terminal command keys, 2 RS-232C serial ports with software selectable speed, parity, and data byte length. Software permits holding and scrolling of information in dynamically created multiple I/O windows on the screen, from the keyboard or host.

$2,295.00
manual only **$ 50.00**

Sub-Systems

MicroAngelo™ High Resolution Graphics Subsystem

A high resolution, 512H by 484V, independent graphics system consisting of the MicroAngelo™ Graphics board, 15 inch high performance display monitor, and 72 key detached keyboard with dedicated function keys. Resident software emulates a terminal and offers escape sequences for point, line, region, and variably sized and oriented character generation. Future software extensibility.

$1,995.00
manual only **$ 50.00**
hardcopy driver **$ 80.00**

Wordsmith™ Video Subsystem

An S-100 video word processing interface which includes the Screensplitter's 40 line by 86 character display on a 15 inch CRT with eye saving green phosphor, 72 key detached keyboard with Selectric layout plus 19 dedicated Wordsmith function keys, and Wordsmith Word Processor software.

$1,595.00
manual only **$ 50.00**

Systems

Wordsmith Workstation™

A powerful Z80A-based word processing workstation with a high resolution 15 inch, 40 line display, and detached Selectric-type keyboard plus 19 function keys. Includes the Wordsmith™ Word Processor software, 32K bytes of static RAM, an RS-232C serial port, 2 bi-directional parallel ports, an 8-input interrupt system, real time clock, and 2 integral quad density (630K bytes) mini-floppy disk drives with controller, S-100 bus structure.

$6,595.00

Boards

MicroAngelo™ High Resolution Graphics Board

An independent Z80-based S-100 single board graphics computer featuring 512H by 484V resolution, high speed communication with the host over interrupting or polled parallel ports, flexible bi-directional handshaking, 32K RAM, sockets for up to 8K of ROM (2708/16), 60 hertz interrupting real time clock, dual port memory for a completely undisturbed display, light pen interface (includes power, actuation, and data strobe), S-100 interrupt structure jumperable, composite or direct drive video output, and resident terminal emulator software including point, line, region, cross hair, and variably sized and oriented character generation.

$895.00
manual only **$ 25.00**

Screensplitter™ Video Module

40 lines of up to 86 characters per line display, programmable character generator, 1K bytes of subscreen control software to segment the display into any number of logically distinct I/O regions, 4K of static display memory, composite and direct drive video output, and a selection of esthetically designed fonts. S-100 based.

$395.00
manual only **$ 25.00**

16K Static RAM Board

16K bytes of low power static random access memory using the industry standard 2114 for continuous, reliable 4 Mhz operation, schmitt triggered buffers, independent dip switch mapping of each 4K memory block, 0-6 wait states, and one year guarantee. S-100 based.

$395.00

Software

Wordsmith™ Word Processor

A fully reentrant page-oriented, random access editor/document processor for 8080/Z80-based systems. The Wordsmith™ features extensive block manipulation capabilities, instantaneous formatting and justification, modular hardcopy drivers, template generation and recall, multi-file cut-and-paste, automatic word wrap, informative status lines, and understandable commands. It's powerful, flexible, and simple to use. CP/M®, North Star DOS, CDOS, and IMDOS compatibility. Available for 40 x 86, 24 x 80, and 16 x 64 memory mapped video displays.

$200.00
manul only **$ 25.00**

Miscellaneous

High Resolution Monitor

A 15 inch high resolution (20 Mhz) CRT enclosed in an attractive beige and black cabinet. The eye saving green phosphor, automatic focus adjustment, and anti-glare etched glass are standard.

$895.00

72 Key Keyboard

A quality, 3 color, 52 key Selectric layout keyboard with sculptured keytops and tactile feedback, plus 20 function keys, in an attractive, vacuum molded case with coiled cabling. Function key tops are available for word processing, graphics terminal, or standard terminal usage. Red LED indicator, N-key rollover, and selected auto-repeat are standard.

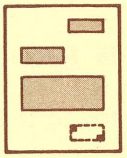
$395.00
additional key top set **$ 50.00**

Micro Diversions, Inc. 8455-D Tyco Road Vienna, Virginia 22180 (703) 827-0888

Prices subject to change without prior notice.

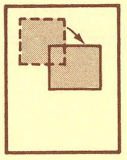
Regions

- **Defining**



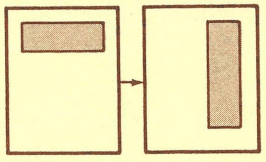
By planting marks at the current cursor locations, a region can be "opened" which constrains all type-in to itself.

- **Manipulating**



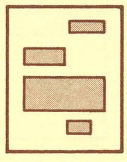
"Drag" mode will attach the cursor to the region. As the cursor is moved, so goes the region and its contained text!

Prefer a different shape for your text? Dynamic redimensioning allows you to take in or let out any of the region's borders, with the text inside readjusting itself to fit the new region size automatically.

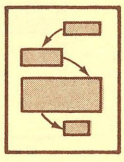


- **Templates**

Snapshots of the region layout of a page with or without text can be saved as named disk files, then later recalled and superimposed on the current page as its new region structure. Use templates for standard multi-column layouts, common letter formats, and fixed field forms. A single keystroke dispatches you quickly from region to region as you fill in your page.



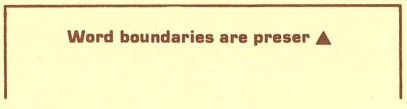
Take a snapshot of a page's window layout

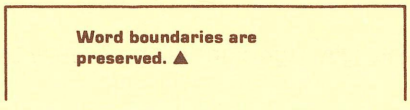


Recall a template and hop from window to window

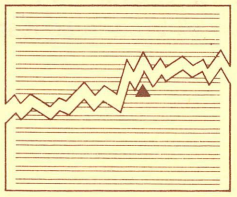
Entering Text

As you enter text, Wordsmith updates the status line to reflect the current cursor position. Auto word break is provided, moving an uncompleted word from the end of one line to the beginning of the next as you continue typing. Of course, manual override is available.





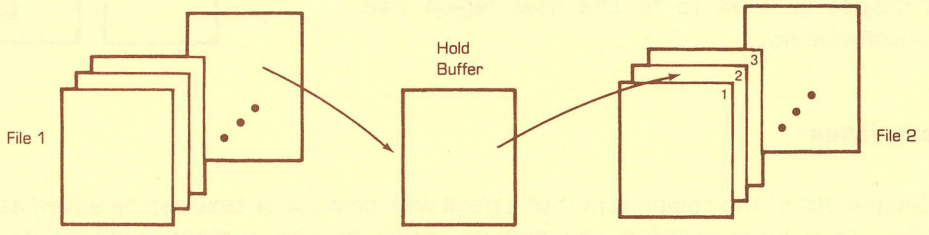
Cut & Paste Power



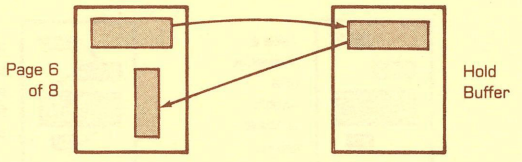
Split Page inserts a blank page after the current one and moves the text below the cursor to the new page.

Join Page is the inverse operation, transferring as much text as possible from the next page to the current one. The text on the next page is popped up to fill the vacated area.

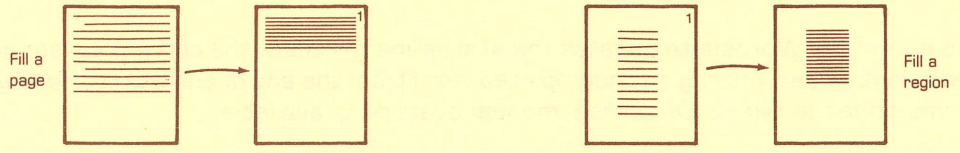
Behind the scene, the **hold buffer** will accept up to a page worth of text to facilitate intra and inter-document region movement.



Duplication of text blocks is possible, and the shape and size of any region can be modified "on-the-fly".



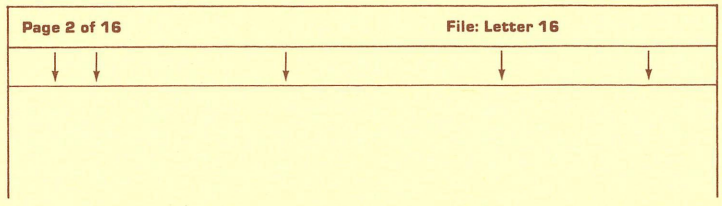
Fill causes the text to be reformatted to fit as densely as possible, without breaking up words.



And right-margin alignment is achieved with the **adjust** commmand that operates on any page or region.

Tab Control

The first text line of each page can be swapped out to view the tab line, and allows the user to add or clear tab stops. When the tab editing mode is exited, the first text line is restored.



Search and Substitute

Searching for a string of characters can be accomplished at the line, window, page, and file level. A search at the file level can be interrupted by any keystroke. Substitution is made for either the next occurrence or all occurrences of the target string. If a substitution would force data loss, Wordsmith waits and invites manual intervention.

Hard Copy Interfaces

The hardcopy interface is an integral part of Wordsmith and offers the best in output control. Diablo, NEC, Qume, and TTY-like printers are supported with flexibility and optimization techniques. Cut sheet and fan-fold paper of any size can be used and with all the speed you'd expect from your intelligent printer. Forward and backward printing as well as multiple-blank-to-tab conversion are present in Wordsmith. Further, Wordsmith lets you define the number of lines per hardcopy page and allows your logical (screen) page to flow through to the printer as continuous lines with a different physical page size.

Basic Editing Functions

- Backspace
- Insert character
- Delete character
- Tab
- Insert page
- Delete page
- Type window
- Type document
- Insert line(s)
- Delete line(s)
- Hold line(s)
- Split line
- Join line
- New file
- Old file
- Insert mode
- Overstrike mode
- Insert blank
- Show all windows
- Change window size
- Change size transparently
- Regenerate page
- Next page
- Previous page
- Search line
- Search window
- Search document
- Substitute next occurence
- Substitute all occurences
- Type document continuous
- Type compacted document
- Type compac. doc. contin.
- Display page #n (absolute)
- Display page ±n (relative)
- Hop window to mark
- Open window
- Home cursor
- Window drag
- Edit tab line
- Mark
- Clear marks
- Compact window
- Justify window
- Hold window
- Save template
- Recall template
- View all windows
- Pick up line(s)
- Put down line(s)
- Erase to EOL
- Erase to EOW
- Tab to EOL
- Underline between marks
- Erase underline between marks
- Underline
- Erase underline
- Clear window
- Repeat last command
- Drop window
- Drop all windows
- Literal
- Exit editor
- Abort edit session
- Cycle to next window
- Split page
- Join pages

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